ROBUST SUMMARY
ALKYL SULFIDE CATEGORY
CAS #68511-50-2
GENETIC TOXICITY ELEMENTS: GENETIC TOXICITY IN VITRO

Test Substance	
CAS#	68511-50-2
Chemical name	1-propene, 2-methyl- sulfurized
Remarks	This substance is also referred to as methyl propene derivative in HERTG's Test Plan for the Alkyl Sulfide Category. For more information on the chemical, see Section 2.0 "Chemical Description of Alkyl Sulfide Category" in HERTG's Test Plan for Alkyl Sulfide Category.
Method	
Method/guideline followed	Consistent with guidelines outlined in OECD 471
Test Type	Reverse Mutation Assay
System of testing	Bacterial
GLP (Y/N)	No
Year (study performed)	1978
Species/Strain	*Salmonella typhimurium* strains TA1535, TA100, TA1537, TA1538, and TA98
Metabolic activation	Test conducted with and without metabolic activation Adult male Sprague-Dawley rat liver S-9 fraction, induced with Aroclor 1254 100 ul/plate
Concentrations	0, 0.01, 0.05,0.1, 0.5, 1.0 ul of test agent per plate with and without metabolic activation
Statistical Methods	Determination of mean ±S.D. of replicate plate counts
Remarks Field for Test Conditions	The vehicle was DMSO; All stock and working solutions were stored at 4°C in glass screw-capped bottles; All sterility controls were negative for bacterial growth; Vehicle was tested as negative control; Positive controls (9-aminoacridine and 2-nitrofluorene without activation and 9-aminoacridine, 2-nitrofluorene, aflatoxin, and 6-aminochrysene with activation) were at least 3 times the number of colonies as the control.
Results	
Remarks	For all strains and dose levels with and without metabolic activation, the criteria for a positive mutagens (at least 3 times the number of colonies as the controls for spontaneous reversion) was not met.

Conclusions	The test agent did not induce a significant increase in the number of point mutations in *Salmonella typhimurium* strains in the absence of the activating system for strains TA1535, TA100, TA1537, TA1538, and TA98. It also did not induce a significant increase in the number of point mutations with the addition of an exogenous source of liver enzymes for metabolic activation in strains TA1535, TA100, TA1537, TA1538, and TA98.
Data Quality	Reliable. Comparable to guideline study.
References	This robust summary was prepared from an unpublished study by an individual member company of the HERTG (the underlying study contains confidential business information).
Other	Updated: 4-12-00